

7th Grade  
Nov 10, 2020

Please get out your homework from yesterday and a pen for checking.

Today we will:

- review HW
- begin classwork WS

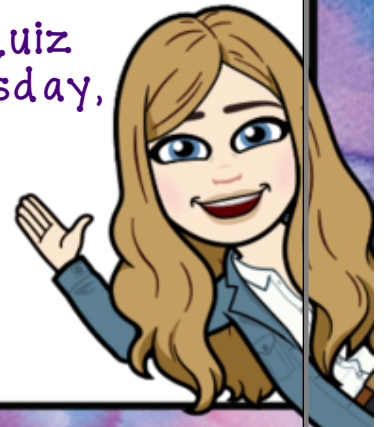


### HOMEWORK:

HW Practice WS if not done in class

ALEKS-5 topics and 60 minutes due by 11:59pm Monday night

Benchmark quiz next Wednesday, Nov 18.



Express each ratio as a fraction in simplest form. (Example 1)

10. 9 out of 15 pets  $\frac{3}{5}$

11. 20 wins out of 36 games  $\frac{5}{9}$

12. 4 players to 52 cards  $\frac{1}{13}$

13. 45 out of 60 days  $\frac{3}{4}$

14. 16 pens to 10 pencils  $\frac{8}{5}$

15. 96 people to 3 buses  $\frac{32}{1}$

16. On a full-sized piano, there are 36 black keys and 52 white keys. Express the ratio of black keys to white keys as a fraction in simplest form. Explain its meaning. (Example 2) See margin.

9 black  
13 white

17. In a restaurant, 72 out of 108 tables are booths. Express the ratio of tables that are booths to the total number of tables as a fraction in simplest form. Explain its meaning. (Example 2) See margin.

$$\frac{72}{108} \div \frac{9}{9} = \frac{8}{12} \div \frac{4}{4} = \frac{2}{3}$$

Express each ratio as a fraction in simplest form. (Example 3)

18. 10 yards to 10 feet  $\frac{3}{1}$

$30^2 \text{ ft}$   $\frac{30}{10} = \frac{3}{1} = 3$

19. 4 ounces to 2 pounds  $\frac{1}{8}$

$32 \text{ oz}$   $\frac{4}{32} = \frac{1}{8}$

20. 18 quarts to 4 gallons  $\frac{9}{8}$

21. 6 feet to 14 inches  $\frac{36}{7}$

22. A department store conducted a study to determine what age groups shop in its store.

a. Express the ratio of people ages 0–17 to people ages 18–30 as a fraction in simplest form.  $\frac{1}{3}$

$\frac{25}{75} = \frac{1}{3}$

b. Express the ratio of people 30 or under to people over the age of 30 as a fraction in simplest form.  $\frac{5}{4}$

$\frac{100}{80} = \frac{5}{4}$

c. Express the ratio of people ages 18–30 to the total number of people as a fraction in simplest form.  $\frac{5}{12}$

Age Group	Number
0–17	25
18–30	75
31–45	54
46+	26

## Independent Practice

Go online for Step-by-Step Solutions



Express each rate as a unit rate. Round to the nearest tenth or to the nearest cent, if necessary. (Example 1)

9. 156 students in 6 classes **26 students per class**      10. 424 Calories in 3 servings **141.3 Cal per serving**
11. 147.5 miles in 2.5 hours **59 mph**      12. \$29.95 for 4 DVDs **\$7.49 per DVD**
13. \$231 for 3 game tickets **\$77 per ticket**      14. 5 tablespoons in 4 quarts **1.3 T/qt**
15. \$97.50 for 15 pizzas **1 pizza for \$6.50**      16. 400 meters in 58 seconds **6.9 m/s**
17. 352 miles on 16 gallons **22 mi/gal**      18. \$60 for 8 hours of work **\$7.50 per h**

19. **Financial Literacy** The Party Planner sells 10 paper plates for \$2.50. Use the table to determine which company sells paper plates for the same price per plate. Explain. (Example 2) **See Answer Appendix.**

Store	Number of Plates	Price
Party Time	15	\$3.75
Good Times	20	\$6.00
Birthday, Inc.	25	\$7.50

20. **STEM** Building A has 7500 square feet of office space for 320 employees. Building B has 9500 square feet of office space for 370 employees. Which building has more square feet of space per employee? Explain. (Example 2) **Building B; A = 23 ft<sup>2</sup>/employee; B = 26 ft<sup>2</sup>/employee**

21. A recipe that makes 2 dozen cookies calls for  $\frac{3}{4}$  cup sugar. How much sugar is needed to make  $4\frac{1}{2}$  dozen cookies? (Example 3)  **$1\frac{11}{16}$  c**



$$9. \frac{156}{6} = 156 \div 6 = 26$$

calculator's OK

→ 0.25





Name \_\_\_\_\_  
Unit \_\_\_\_ Lesson \_\_\_\_ Due Date \_\_\_\_\_  
  **PRACTICE**

**Lesson 1 Homework Practice**  
**Ratios**

Express each ratio as a fraction in simplest form.

1. 56 pencils to 64 erasers

2. 25 calculators to 20 students

3. 36 cassettes to 60 CDs

4. 6 pounds to 256 ounces

16 ounces per pound

5. 9 gallons to 48 quarts

6. 24 feet to 30 yards

4 quarts per gallon

3 feet per yard

**Lesson 2 Homework Practice**

***Unit Rates***

Express each rate as a unit rate. Round to the nearest tenth or nearest cent, if necessary.

**\*\*CALCULATORS OK\*\***

1. \$4.60 for 5 cans of soup

2. \$51 for a box of 75 tiles

3. 652 miles in 9 days

4. 116 meters in 12 seconds

5. Happy Times Summer Camp has 356 campers and 38 counselors. Play Day Summer Camp has 219 campers and 28 counselors. Which camp has the lower rate of campers to counselors?

6. A roller coaster can accommodate 360 riders in 20 minutes. How many riders could ride in 90 minutes?  
(HINT: Set up a proportion, meaning two equivalent fractions.)

7. The Music Factory offers 45-minute music lessons for \$40. The Music Makers offers 60-minute lessons for \$55.  
Which is the better deal?